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Sub Code

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Hrs/ Week

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Exam Hours

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Total Hrs.

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52

Exam Marks

:

100

PART – A

UNIT 1:

- **1** Foundation:
- **1.1** Preliminary Investigation of Soil,
- 1.200 Bearing Capacity of Soil000000

DODUCTION OF Soil,

1.2.2. Safe Bearing Capacity of Soil

1.3 Classification of Foundations

1.4 Introduction to Different type of foundation,

- 1.4.1. Masonry footings,
- 1.4.2. Isolated footings
- **100000 1.4.3. Combined and strap RCC footings**,

000001.4.4. Raft footing,

IIII IIII 1.4.5. Pile foundations. (Friction and Load bearing piles),

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6 Hours

UNIT 2:

2. Masonry

DODUCTION OF terms used in masonry,

2.2. Bonds in Brickwork,

2.2.1 English Bond

- 2.2.2. Flemish Bond,
- 2.3. Reinforced brickwork,
- 2.4. Joints in Stone Masonry
- 2.5.1. Coursed Rubble Masonry,
- 2.5.2. Uncoursed rubble masonry

masonry,

2.6 Ashlar Masonry

8 Hours

UNIT 3:

- 3.1.1. Classification,
- 3.1.2. Stability of an arch
- 000000000000000000**3.2 Lintels**0
- 3.2.1 Types and classifications,
- 3.2.2 Functions,
- 3.2.3 Method of constructions

000000000000000**3.3 Chejja**,

3.3.1 Functions,

3.3.2 Method of constructions,

3.3.3 Canopy,

3.3.4 Functions.

Barrier Construction,

3.4. Balcony,

3.4.1 Functions,

3.4.2 Method of construction

3.5 Shoring

3.6 Underpinning,

3.7 Scaffolding

7 Hours

UNIT 4:

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4. Floors and Roofs

method of laying),

4.1.1 Granolithic

4.1.2 Mosaic

4.1.4 Marble,

4.1.5 Polished Granite,

4.1.6 Industrial flooring

4.3 Sloped roof (R.C.C. And Tile roof),

4.4 Lean to roof

4.5 Wooden truss (King post and queen post trusses),

4.6 Steel trusses

4.7 Weather proof course for RCC Roof,

7 Hours

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PART – B

UNIT 5:

5. Stairs, Doors and Windows

5.1 Types (Classifications) and Technical terms in

stairs,

5.2 Requirements of a good stair.

DODUCTOR 5.3 Geometric Design of RCC Dog Legged and

Or Open well stairs. (Plan and sectional elevation of

5.4 Doors,

5.4.1 Types,

- 5.4.1.1 Paneled doors,
- 5.4.1.2 Glazed doors,
- 5.4.1.3 Flush doors
- 5.4.1.4 Collapsible and rolling shutters,
- 5.4.1.5 Louvered doors,
- 5.4.1.6 Revolving, sliding and swing doors,
- 5.5 Windows,

5.5.1 Types,

- 5.5.1.1 Paneled,
- 5.5.1.2 Glazed,
- 5.5.1.3 Bat window,
- 5.5.1.4 Dormer window,
- 5.5.1.5 Louvered and corner window,

5.6 Ventilators

6 Hours

UNIT 6:

6. Plastering and Painting

6.2 Materials of plastering,

6.2.1 Lime mortar,

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6.2.2 Cement Mortar

000000000000000006.3.1 Stucco plastering,

6.5 Types of Paints

6.6 Application of paints to new and old surfaces,

6.6.1 Distemper

- 6.6.2 Plastic emulsion,
- 6.6.3 Enamel,

6.6.4 Powder coated painting to walls and iron and steel surfaces,

6.6.5 Polishing of wood surface

6 Hours 🛛 🖓

UNIT 7:

7. Introduction to cost effective construction

000000000000000000**7.1 Necessity**,

7.2 Advantages,

7.3 Pre fabrication techniques

7.4 Pre cast doors and windows (Pre cast frames

and shutters),

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DODUCTION OF Alternative Building Materials

blocks

blocks

7.5.3 Micro concrete tiles,

7.5.4 Precast roofing elements

6 Hours

UNIT 8:

8. Miscellaneous topics

8.1 Form Work

Details,

8.1.1 RCC columns,

8.1.2 Beams,

8.1.3 Floors, 00000

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8.2 Slip forming

6 Hours

TEXT BOOKS

1. Building Construction by S.G. Rangwala, Charter Publishing House, Anand, India.

2. Building Construction by Sushil Kumar, Standard Publication and Distributors, New Delhi

3. Building Construction by Punmia B.C., Lakshmi Publications, New Delhi.

4. Advanced Building Materials and Construction by Mohan Rai and Jai Sing, CBRI Publications, Roorkee.